

July 15, 1941

Dr. Carl C. Lindegren
Department of Bacteriology
University of Southern California
Los Angeles, California

Dear Lindegren:

We have had rather good luck with the Neurosporas. I always knew they were fine bugs to work with but I never fully appreciated all their advantages. We've worked out the normal nutrition requirements and find that they (three species) can synthesize all the vitamins they need except biotin. In other words, they'll all grow on a medium containing salts, sugar and biotin. We have one X-ray mutant that seems not to be able to make one of the B vitamins but we haven't yet finished the analysis of this. It would be good fun to run the mutants for visible characters through our nutrition mill and see if they are like the normal in this respect. Would you be willing to send us stocks of your mutant strains for this purpose? I don't know just how we could reciprocate, but we're doing a good bit of X-raying and if we should find useful mutants, we'll be glad to send them to you for linkage analysis. We are looking particularly for mutants concerned with nutrition but should pick up some others on the way. We're not planning to go in for linkage analysis, although I regard it as very worthwhile and hope you are planning to continue your work along this line.

I am sending this to both Missouri and U.S.C. since I'm not sure where you are at the moment.

With best regards to you and Mrs. Lindegren, I am

Sincerely yours,

G. W. Beadle